

**CDC ATSDR/NCEH and George Washington University Workshop on Public Health and the Effects of
Hydraulic Fracturing/Natural Gas Development
May 1 - 2, 2012: House of Sweden, 2900 K Street, Washington D.C.
Draft Agenda**

Recent advances in drilling methods and technologies, including horizontal drilling and hydraulic fracturing, have improved the ability to recover natural gas from reserves across the United States. In his State of the Union, President Obama stated that “America will develop this resource without putting the health and safety of our citizens at risk.” The purpose of this workshop is to support Federal, state, and tribal efforts to carry out this goal. The potential health impacts of these activities have received minimal study to date. ATSDR/CDC and its partners are increasingly getting requests for assistance in evaluating the potential for exposure and/or health risk. This workshop will bring together experts on environmental health and on hydraulic fracturing in order to identify public health concerns, data gaps, methodologies, and next steps to inform and address these concerns.

The goals of the workshop include the following:

1. Examine the potential for environmental exposures from hydraulic fracturing/ natural gas development activities to impact health.
2. Identify data sources, methods, and tools that can be used for future evaluation of exposure levels and associated health outcomes.
3. Identify priorities and sequence of appropriate next steps for ATSDR/CDC and their partners to ensure the health and safety of communities and workers.

May 1, 2012

1:00-3:00 Overview of Natural Gas Extraction

- | | |
|-----------------------|--|
| • Chris Portier, CDC | Welcome and Overview of Purpose of the Workshop |
| • Lynn Goldman, GWU | Public Health and Shale Gas Extraction: Overview of IOM Meeting |
| • Industry | Hydraulic Fracturing and Horizontal Drilling Technologies |
| • Interior Department | Hydraulic Fracturing Initiatives by the Department of the Interior |
| • Bob Perciasepe, EPA | National Strategy for Hydraulic Fracturing |

3:00-3:15 Break

3:15-5:30 Exposure Pathways and Potential Risks

- | | |
|--------------------------|---|
| • NIEHS | Toxicology Initiatives for Hydraulic Fracturing/Tox21 |
| • Gabrielle Petron, NOAA | Methane releases/Climate Impacts of Natural Gas Extraction |
| • Bill Leith, USGS | Earthquakes and Hydraulic Fracturing |
| • Ayn Schmit, EPA | Study of the Impacts of Hydraulic Fracturing on Drinking Water at Pavilion WY |
| • Mary Mortensen, CDC | The Role of Biomonitoring for Assessing Hydraulic Fracturing Exposures |

May 2, 2012

8:00-10:00 Community Health Effects

- | | |
|---|--|
| • Jerome Paulson, Children's
National Medical Center/GWU | Clinical Aspects of Hydraulic Fracturing |
| • John Villanacci, TX DOH | DISH Texas Exposure Investigation |
| • Robert Oswald, Cornell | Impacts of Gas Drilling on Human and Animal Health |
| • Lora Werner, ATSDR | ATSDR Health Risk Findings of Water Investigations |
| • Raj Goyal, CO DOH | Case Study Garfield County CO |

10:00 – 10:30 Break

10:30 – 12:00 Worker Health and Safety Concerns from Hydraulic Fracturing (OSHA/NIOSH)

- John Howard, NIOSH Introduction
- Mike Marshal, OSHA OSHA Oil and Gas Local Emphasis Programs/review of LEP data
- Mary Reynolds, OSHA OSHA Health and Safety Issues
- Eric Esswein, NIOSH NIOSH field investigations of worker exposures during hydraulic fracturing
- John Snawder, NIOSH Discussion of research gaps and NIOSH initiatives
- Tina Jones, OSHA Wrap up and discussion of OSHA initiatives/research needs

12:00-1:00 Next Steps

- Discussion on Data Gaps, Methodology, and Next Steps for CDC NCEH/ATSDR